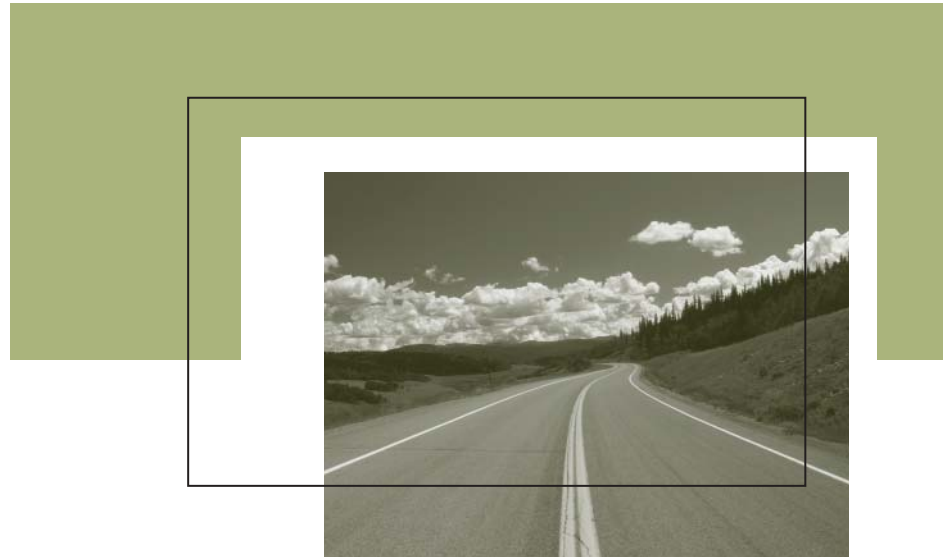


HT1000™
PORTABLE RADIO



Motorola is creating new horizons in radio... with innovations that make dedicated two-way communications faster, clearer and easier to use..

The HT1000 portable...a powerful, small, durable radio loaded with advanced two-way communications features. It's available in 2 and 16 channel models, and supports VHF, UHF and 800 MHz.

FEATURE PACKED

Small and lightweight, the HT1000 portable breaks the notion that a radio's size and weight must increase as the portable grows in capability. The HT1000 radio is loaded with features never before offered in a Motorola HT portable product. Features such as Operator Selectable Scan, Priority Scan, Unit ID, Emergency, Call Alert Decode, a built-in noise canceling microphone, and DTMF encode capable.

FREQUENCY FLEXIBILITY

The HT1000 portable features a broad band range. A single radio model can operate from 136 to 174 MHz to cover VHF requirements. The entire UHF band is covered with 2 models and the 800 MHz band needs only one. Additionally, the HT1000 radio's channel

spacing is programmable in VHF and UHF, letting you change bandwidth in either a 25 kHz or 12.5 kHz spaced communication system.

VERSATILE

The design of the HT1000 portable gives you the ability to configure the radio's operational parameters to fit the user's needs. Not only can feature sets be mode slaved for automatic operation, but the top mounted three position toggle switch can be programmed to allow for manual feature access.

RUGGED

The HT1000 portable also meets or exceeds numerous Mil. Std. 810C, D and E requirements, and has passed Motorola's unique Accelerated Life Test for durability and reliability.

THE NEW HORIZON

The HT1000 portable offers all the quality and reliability you have come to expect from Motorola...and more. Never before has Motorola produced an HT radio with such advanced capabilities... truly a new horizon in radio communications.

HT1000

Specifications

Typical Performance Specifications (all specifications are per EIA 316B unless otherwise noted)

General	Model Number	Channels	Bandsplit	RF Pwr Output	Display / Keypad
VHF Models	H01KDC9AA1_N	2*	136 - 174 MHz	1 to 5 Watts	None / Optional
	H01KDC9AA3_N	16	136 - 174 MHz	1 to 5 Watts	None / Optional
UHF Models	H01RDC9AA1_N	2*	403 - 470 MHz	1 to 4 Watts	None / Optional
	H01RDC9AA3_N	16	403 - 470 MHz	1 to 4 Watts	None / Optional
	H01SDC9AA1_N	2*	450 - 520 MHz	1 to 4 Watts	None / Optional
	H01SDC9AA3_N	16	450 - 520 MHz	1 to 4 Watts	None / Optional
800 Models	H01UCC9AA1_N	2*	806 - 870 MHz	3 Watts	None / Optional
	H01UCC9AA3_N	16	806 - 870 MHz	3 Watts	None / Optional

*2 channel models not compatible with MTVA or Public Safety Microphone.

Power Supply	Provided through one rechargeable nickel cadmium battery.				
Sealing	Withstands rain testing per mil. Std. 810 C/D/E				
Shock and Vibration	Protection provided via impact resistant housing exceeding ERA RS-316B and Std. 810 C/D/E				
Dust and Humidity	Protection provided via weather resistant housing exceeding ERA RS-316B and Std. 810 C/D/E				
Radio Dimensions			Radio Weight		
Radio Only	6.30" (H) x 2.34" (W) x 1.49" (D)		Radio Only	10.2 oz	
With High Capacity Battery	6.30" (H) x 2.34" (W) x 1.49" (D)		With High Capacity Battery	18.3 oz	
With Ultra High Capacity Battery	6.30" (H) x 2.34" (W) x 1.54" (D)		With Ultra High Capacity Battery	19.4 oz	
Dimensions Note: All depth and width dimensions reflect measurements taken at the widest points on the radio unit. They do not reflect every depth point on the radio.					
Battery Life @ 5/5/90	VHF @ 5W	VHF @ 1W	UHF @ 4W	UHF @ 1W	800 @ 3W
High Capacity Battery	8.0 Hours	11.0 Hours	8.0 Hours	11.0 Hours	8.0 Hours
Ultra High Capacity Battery	9.0 Hours	12.0 Hours	9.0 Hours	12.0 Hours	9.0 Hours

Transmitter			
	VHF	UHF	800
Channel Spacing	12.5 / 25 / 30 / kHz	12.5 / 25 kHz	25 kHz
Frequency Separations (MHz)	Full Bandsplit 136 - 174	403 - 470 & 450 - 520	Full Bandsplit 806 - 825 (TX) 851 - 870 (RX)
FM Hum & Noise @ 12.5 kHz	-40 dB	-40 dB	
@ 20 or 30 kHz (Companion Receiver Method)	-45 dB	-45 dB	-45 dB
Spurious & Harmonics	-66 dBW	-66 dBW	-46 dBW
Frequency Stability @ 12.5 kHz	+/- .0005%	+/- .0003%	
@ 20 or 30 kHz (-30 to +60° C; 25° C ref.) (821 - 824 MHz Capable)	+/- .0005%	+/- .0005%	+/- .00025%
FCC Designation	AZ489FT3768	AZ489FT4780	AZ489FT5747
Modulation	16KOF3E 20KOF2D	16KOF3E 20KOF2D	16KOF3E 20KOF2D
Audio Response (from a 6 dB / octave pre-emphasis 300 to 3000 Hz)	+ 1, -3 dB	+ 1, -3 dB	+ 1, -3 dB

Transmitter			
	VHF	UHF	800
Channel Spacing	12.5 / 25 / 30 / kHz	12.5 / 25 kHz	25 kHz
Frequency Separations (MHz)	Full Bandsplit 136 - 174	403 - 470 & 450 - 520	Full Bandsplit 851 - 870
Modulation Acceptance @ 12.5 kHz	+/- 3.75 kHz	+/- 3.75 kHz	
@ 20 or 30 kHz	+/- 7.5 kHz	+/- 7.5 kHz	+/- 7.5 kHz
Audio Distortion	3%	3%	3%
Intermodulation @ 12.5 kHz	-65 dB	-65 dB	
@ 20 or 30 kHz	-75 dB	-73 dB	-70 dB
Sensitivity 20 dB Quieting 12 dB Sinad	.40 μV .28 μV	.40 μV .28 μV	.50 μV .35 μV
Adjacent Channel Selectivity (EIA Sinad) @ 12.5 kHz	-65 dB	-63 dB	
@ 25 or 30 kHz	-75 dB	-73 dB	-70 dB
Spurious Response Rejection 1/2 I.F.	-75 db -75 db	-73 db -68 db	-70 db -70 db
Image Rejection	-74 dB	-73 dB	-74 dB
Rated Audio Output	500 mW	500 mW	500 mW
Frequency Stability @ 12.5 kHz	+/- .0005%	+/- .0003%	
@ 20 or 30 kHz (-30 to +60° C; 25° C ref.)	+/- .0005%	+/- .0005%	+/- .00025%

Standard	U.S. Military Spec 810C		U.S. Military Spec 810D		U.S. Military Spec 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	II	500.3	II
High Temperature	501.1	I	501.2	I (Cat. A1), II	501.3	I (Cat. A1), II
Low Temperature	502.1	I	502.2	I (Cat. C1), II	502.3	I (Cat. C1), II
Temperature Shock	503.1	I	503.2	I (Cat. A1, C1)	503.3	I (Cat. A1, C1)
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VII, VIII, X	514.3	I (Cat. 8)	514.4	I (Cat. 8)
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV

HT1000

Audio Accessories

REMOTE SPEAKER MICROPHONES (RSM)

- NMN6193C* Remote Speaker Microphone
- NMN6191C* Noise Canceling Remote Speaker Microphone
- 0104010J46 Replacement Coil Cord Assembly for Remote Speaker Microphones

The Remote Speaker Microphone is a water-resistant compact unit that allows the user to talk and listen without removing the radio from the belt, case or charger. It has a coiled cord, push-to-talk switch and clothing clip on the back cover.

- RMN5038A Remote Speaker Microphone with Emergency Button

This Remote Speaker Microphone features an Emergency Button for mission critical situations. It also features high/low volume buttons, 3.5mm audio jack and quick disconnect latch. Must use earpiece RLN4941A or WADN4190.



NMN6193C



RMN5038A

RSM ACCESSORIES

EPAULET STRAP

- RLN4294A Epaulet Strap, Velcro
- RLN4295A Epaulet Strap, small clip

Black leather epaulet strap secures remote speaker microphone to epaulet straps on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures remote speaker microphone cord to allow reliable communications in hostile environments.



NMN6228C

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

- NMN6228C* Noise-Canceling Public Safety Speaker/Microphone, 30" straight cord
- NMN6243B* Noise-Canceling Public Safety Speaker/Microphone, 18" straight cord
- NMN6244B* Noise-Canceling Public Safety Speaker/Microphone, 24" straight cord

Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, quick connect latch, antenna connector, and receiver, audio high/low volume push button. Antenna must be ordered separately.

MICJACKETS

- RLN5002A MicJacket Kit, compatible with NMN6191C and NMN6193C remote speaker microphones
- RLN5004A MicJacket Kit, compatible with NMN6228C, NMN6243B and NMN6244B public safety speaker microphones

The MicJackets provide speaker microphone users with a way to further protect the "head" of their microphone from dust, dirt, metal particles, sweat, body oils and other on-the-job grime. MicJackets also allow the user to handle or interact with the speaker microphone in a more hygienic way.

**Intrinsically safe*





BDN6719A

RECEIVE ONLY EARPIECES

- BDN6781A Pellet Style Earpiece
- BDN6719A Flexible Ear Receiver; this flexible ear receiver contains a flexible ear loop and speaker and rests external to the ear.
- 7580372E11 Replacement Foam Ear Cushions for BDN6719A
- RLN4941A Receive-Only earpiece with translucent tube and rubber eartip for use with RMN5038A
- WADN4190A Receive-Only flexible earpiece for use with RMN5038A.

Plugged into the 3.5mm earjack on the RSM audio adapter, these audio accessories will mute the speaker on the RSM allowing the user to discreetly hear all incoming messages. Ideal for noisy environments.

RECEIVE ONLY HEADSETS

- RMN4056B Receive-Only Dual-Muff Headband Style Headset; provides 24dB of noise reduction; for use with NMN6193C and NMN6191C (can be plugged directly into radio with BDN6676D adapter)
- RMN4057B Receive-Only Hardhat Mount Headset mounts easily to hardhats with slots and provides 22dB of noise reduction; for use with NMN6193C and NMN6191 (can be plugged directly into radio with BDN6676D adapter)



RMN4056B



BDN6780A

PELLET STYLE EARPIECES

- BDN6780A Single Earbud Microphone and Push-To-Talk, requires adapter BDN6676D
- BDN6781A Receive only Earbud, requires adapter BDN6676D
- 7580372E70 Replacement Foam Ear Cushions for Pellet Earpieces
- BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch

The pellet style earpiece allows the user to receive communication discreetly and is comfortable for extended wear.

HT1000

Audio Accessories

SURVEILLANCE KITS

RECEIVE ONLY EARPIECE WITH STANDARD EARPHONE EARLOOP (1-WIRE)

BDN6664A*	Beige
BDN6665A†*	Beige
BDN6726A	Black
BDN6727A†	Black



BDN6664A

RECEIVE ONLY EARPIECE WITH VOLUME CONTROL (1-WIRE)

BDN6666A*	Beige
BDN6728A*	Black

EARPIECE WITH MICROPHONE AND PUSH-TO-TALK COMBINED (2-WIRE)

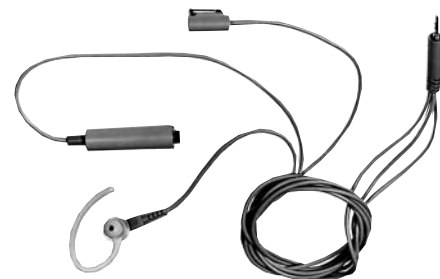
BDN6667A*	Beige
BDN6669A†*	Beige
BDN6729A	Black
BDN6731A†	Black



BDN6667A

EARPIECE WITH MICROPHONE AND PUSH-TO-TALK SEPARATE (3-WIRE)

BDN6668A*	Beige
BDN6670A†*	Beige
BDN6730A	Black
BDN6732A†	Black



BDN6668A

Surveillance accessories allow the user to privately receive communications with the earpiece and are ideal when environments require discreet communications. The following surveillance accessories require the BDN6676D (3.5mm threaded adapter jack) that attaches to the radio, unless being used with speaker microphone.

SURVEILLANCE KIT ACCESSORIES

BDN6676D*	3.5mm Jack Adapter with Quick Disconnect Latch
5080371E73	Standard Rubber Eartips, pack of 25, Beige
5080371E75	Standard Rubber Eartips, pack of 25, Black

† Extra loud earphone (exceeds OSHA limits)

* Intrinsically safe



BDN6676D

HT1000

Audio Accessories

SURVEILLANCE KITS WITH EXTENDED WEAR COMFORT EARPIECE

RECEIVE ONLY COMFORT EARPIECE

RLN5314A Beige

RLN5313A Black

COMFORT EARPIECE WITH MICROPHONE AND PUSH-TO-TALK COMBINED (2-WIRE)

RLN5311A Beige

RLN5312A Black

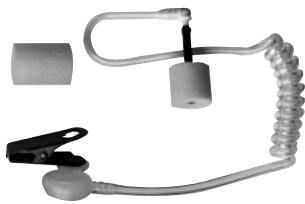
These kits include a comfort earpiece with a rubber eartip and a clear comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance. The above surveillance accessories require the BDN6676D (3.5mm threaded adapter jack) that attaches to the radio, unless being used with speaker microphone.



RLN5311A



RLN5312A



NTN8370A



NTN8371A

NOISE KITS

NTN8370A

Extreme Noise Kit, includes 2 Foam Earplugs for loud environments; provides 24dB of noise reduction

NTN8371A

Low Noise Kit, includes Rubber Eartip for low noise environments; does not provide hearing protection.

5080384F72

Replacement Foam Plugs; for use with NTN8370A (pack of 50)

5080371E73

Replacement Standard Beige Rubber Eartips; for use with NTN8371A (pack of 25)

5080371E75

Replacement Standard Black Rubber Eartips; for use with NTN8371A (pack of 25)

This lightweight translucent tube attaches to Motorola Surveillance Kits to provide additional flexibility and comfort. Clothing clip prevents the accessory from being pulled from the ear due to body movement or head rotation.

HT1000

Audio Accessories

CLEAR COMFORTABLE EARPIECES

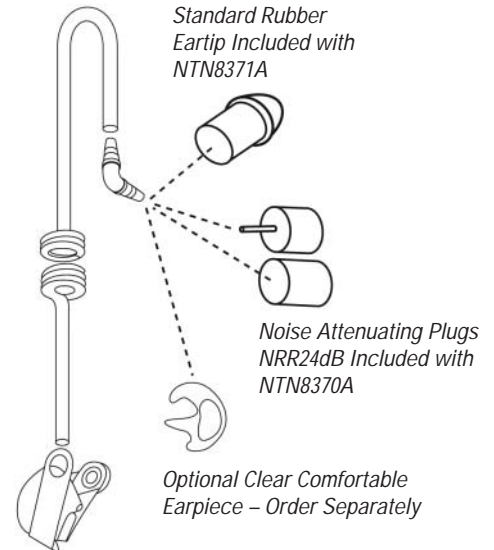
RLN4760A	Small Custom Earpiece, Right Ear
RLN4763A	Small Custom Earpiece, Left Ear
RLN4761A	Medium Custom Earpiece, Right Ear
RLN4764A	Medium Custom Earpiece, Left Ear
RLN4762A	Large Custom Earpiece, Right Ear
RLN4765A	Large Custom Earpiece, Left Ear

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. Compatible with the NTN8371A, clear acoustic tube assembly, and surveillance kits (1, 2, and 3-wire). This earpiece is made of easy-to-clean chemically inert, hypo-allergenic material. The following 3 items are required for this product:

- Clear Comfortable Earpiece
- Clear Acoustic Tube Assembly (NTN8371A)
- Surveillance Kit



RLN4763A



Acoustic Tube with Earphone

COMPLETELY DISCREET EARPIECE

RLN4922A	Completely Discreet Earpiece Kit; includes Wireless Earpiece, Inductive Neckloop, 6 Spare Batteries and 5 Spare Ear Wax Guards
RLN4919A	Ear Wax Guards, 5 per pack
RNN4005A	1.4V Battery, 6 per pack

Remain discreetly in touch with this miniaturized receiver. All messages received through the user's two-way radio are inductively relayed to the Wireless Earpiece in the user's ear. Inductive Neckloop is easily hidden under the user's clothing for covert operations. Neckloop attaches to the user's Motorola Surveillance Kit, providing completely discreet two-way communications. Security operatives, public safety officials, and private investigators can communicate with ease without any visible equipment. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Must be used in conjunction with a Motorola Surveillance Kit. Just remove the earpiece on any standard 2- or 3-wire Surveillance Kit and plug in the Neckloop for completely discreet communication.



RLN4922A



HT1000

Audio Accessories

EAR MICROPHONE SYSTEM (EMS)

- BDN6677A* Ear Microphone for Standard Noise Levels (up to 95dB), Black
- BDN6678A* Ear Microphone for Standard Noise Levels (up to 95dB), Beige
- BDN6641A* Ear Microphone for High Noise Levels (up to 105dB)

INTERFACE MODULES FOR EMS

- BDN6708B* Push-To-Talk Interface Module
- BDN6671B* Push-To-Talk or Voice-Activated Interface Module

This compact unit picks up the voice through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured when worn by rescue and hazard protection personnel, who still retain the ability for direct hearing and speaking. For personnel required to wear breathing apparatus, communications with protective masks are as clear as communications without. And its high speech clarity under noisy environments makes it ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module required.



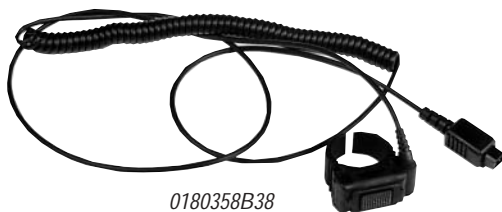
BDN6641A shown with BDN6671B interface module



0180300E83



0180300E25



0180358B38

OPTIONAL ACCESSORIES FOR EAR MICROPHONE SYSTEM

- 0180358B38* Push-To-Talk Ring Switch
- 0180300E83* Push-To-Talk Body Switch
- 0180300E25 Earguard with Adjustable Loop; secures ear mic in ear
- 0180358B32 Earholder, Black, size Small; secures ear mic in ear
- 0180358B33 Earholder, Black, size Medium; secures ear mic in ear
- 0180358B34 Earholder, Black, size Large; secures ear mic in ear
- 0180358B35 Earholder, Clear, size Small; secures ear mic in ear
- 0180358B36 Earholder, Clear, size Medium; secures ear mic in ear
- 0180358B37 Earholder, Clear, size Large; secures ear mic in ear
- 4202006A01 Replacement Back Cover Clip
- 4280369E44 Replaceable Belt Clip with Screws
- 4285838B01 Replacement Collar Clip
- 5080358B28 Eartips, Black, size Medium (pack of 10)
- 5080358B29 Eartips, Black, size Large (pack of 10)
- 5080358B30 Eartips, Beige, size Medium (pack of 10)
- 5080358B31 Eartips, Beige, size Large (pack of 10)

*Intrinsically safe

HT1000

Audio Accessories

CommPort: INTEGRATED MICROPHONE/RECEIVER SYSTEM

- NTN1625A* Integrated Ear Microphone/ Receiver System with PTT on Radio Adapter (includes BDN6676D radio adapter)
- NTN1624A* Integrated Ear Microphone/ Receiver System with Palm PTT (includes BDN6676D radio adapter)
- NTN1663A Integrated Ear Microphone/ Receiver System with ring PTT (includes BDN6676D radio adapter)
- NTN1736A Integrated Ear Microphone/ Receiver System with Snap-on-Side PTT (includes BDN6676D radio adapter)
- NNTN4186A Integrated Ear Microphone/ Receiver System w/Body PTT (includes BDN6676D radio adapter)



NTN1624A

CommPort: REPLACEMENT PARTS

- NKN6508A Replacement Cable for NTN1625A
- NKN6510A Replacement Palm PTT Cable for NTN1624A
- NKN6512A Replacement Ring PTT Cable for NTN1663A
- NKN6525A Replacement Snap-on PTT Cable for NTN1736A
- NNTN4188A Replacement Body PTT Cable for NNTN4186A
- NTN8821A CommPort Maintenance Kit; includes replacement ear tubes (pack of 10), windscreens (pack of 2) and microphone seal strips (pack of 10)
- NTN8986A Adhesive Pads for secure attachment to ear (pack of 90)
- NTN8988A Ear Straps (pack of 10), for secure attachment to ear
- RLN5037A Replacement Ear Tubes (pack of 10)
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch



NNTN4188A

With the CommPort Integrated/Microphone System, users can speak in a whisper and hear in a crowd. CommPort contains a miniature microphone and receiver that connects to a Motorola Two-way radio and fastens securely to the ear. Using the latest in voice processing technology, the CommPort system makes it possible to hear and speak under the most adverse conditions, by picking up sound waves as they cross the face, enhancing voice clarity under high noise conditions. The miniature mic that sits on the top of the earpiece picks them up, cutting through noise, delivering audio without blocking normal hearing. Its variety of push-to-talk options make it ideal for different applications, which include transmitting to firefighters in a burning building, S.W.A.T. or police in covert situations, or workers operating in a noisy environment.

*Intrinsically safe

HT1000

Audio Accessories

LIGHTWEIGHT HEADSETS

- NMN6245A* Single-Muff Lightweight Adjustable Headset with Boom Microphone In-line Push-To-Talk Switch (requires BDN6676D Adapter)
- NMN6246B* Ultra-light Headset with Boom Microphone and In-line Push-To-Talk Switch; ear bud style receiver (requires BDN6676D adapter)
- NMN1020A* Lightweight Headset with Boom Microphone to be worn on a helmet or safety glasses; includes NKN6498A adapter cable; requires BDN6676 adapter
- NKN6498A* Headset Adapter Cable for use with NMN1020A
- 5080574E02 Foam Earpads for use with NMN6245A (pack of 10)
- BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch

Lightweight headsets allow for high clarity, hands-free, discreet two-way communication, while adding comfort necessary for extended wear in moderate noise environments. Requires BDN6676D Audio Adapter.



NMN6245A



RMN4049A

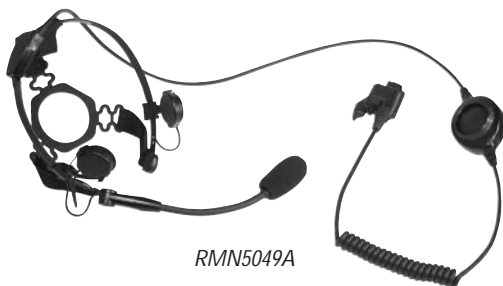
TEMPLE TRANSDUCER

- RMN4049A* Temple Transducer
- RMN5049A* Rugged Temple Transducer

The Rugged Temple Transducer comes equipped with the features of the basic model but has a bigger Push-To-Talk feature and a larger noise-canceling boom microphone. The adjustable strap ensures that the headset stays in place.

0180305J46 Temple Transducer and Ear Microphone System Training CD

The temple transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the received audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear, where it is received by the user. It features an In-Line PTT and noise canceling boom microphone. The Temple Transducer enhances communication and safety by not impairing the user's hearing of external sound environment, such as from machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers.



RMN5049A

MEDIUM WEIGHT HEADSETS

- NMN6258A* Medium Weight Headset, over the head with In-Line PTT, noise reduction = 24dB
- NMN6259A* Medium Weight Headset, behind the head with In-Line PTT, noise reduction rating = 24db
- RMN4051B Hardhat Mount Headset mounts easily to hardhats with slots and provides 22dB of noise reduction; requires RKN4095A adapter cable, hardhat not included.

Medium Weight Headsets feature noise canceling Boom Microphones and offer high-clarity sound with the additional hearing protection necessary for providing consistent, clear two-way radio communications in harsh, noisy situations.



NMN6258A

HT1000

Audio Accessories

TACTICAL MEDIUM WEIGHT HEADSETS

- RMN4052A** Tactical Headband Style Headset, Grey; provides 24dB of noise reduction; requires RKN4095A Adapter Cable
- RMN4053A** Tactical Hardhat Mount Headset; mounts easily to hardhats with slots; provides 22dB of noise reduction; requires RKN4095A Adapter Cable; hardhat not included
- RKN4095A** Radio Adapter Cable with In-Line PTT for use with RMN4051B, RMN4052A and RMN4053A

Same high-clarity sound and additional hearing protection as our standard Medium Weight Headsets, while including two microphones on the outside of each earcup, which reproduce the ambient sound back into the headset. Harmful sounds are suppressed to a safe and low sounds are amplified up to 5 times, but never more than 82dB. Includes on/off volume control on earcups.



RACING HEADSET

- RMN5015A** Racing Headset For Two-way Radios (adapter cable BDN6673B required)
- BDN6673B** Adapter Cable

Motorola is the Official Wireless Equipment supplier of the CART® (Championship Auto Racing Teams), so whether your customers' playing field is a racetrack, construction site or other challenging environment, they can count on this Racing Headset for superior comfort and dependable operation.

HEAVYDUTY HEADSET

- BDN6645A*** Push-To-Talk Headset with Boom Microphone; requires adapter cable BDN6673B; noise reduction rating=24dB
- BDN6635B*** Voice-activated Headset with Boom Microphone; requires adapter cable BDN6673B; noise reduction rating=24dB
- BDN6636B*** Voice-activated Headset with Throat Microphone; requires adapter cable BDN6673B; noisereduction rating=24dB
- BDN6673B*** Radio Adapter Cable

Heavy duty headsets include noise canceling boom microphones and can be worn with or without a hardhat. The Push-To-Talk switch is located on the earcup. The VOX module is contained within the headset on voice activated units. Heavy duty headsets require radio adapter cable BDN6673B, to be ordered separately.

*Intrinsically safe



Carrying Accessories

CARRYING CASES

STANDARD BELT LOOP CARRYING CASES

- NTN7238A** Leather Carry Case with Belt Loop, "D" rings and T-Strap for use with high capacity battery
- NTN7239A** Leather Carry Case with Belt Loop, "D" rings and T-Strap for use with ultra-high capacity battery
- NDN4018B** DTMF Leather Carry Case with Belt Loop and antenna strap for use with high and ultra-high capacity batteries
- NTN7247A** Nylon Carry Case with Belt Loop and Strap for use with high and ultra-high capacity batteries

HIGH ACTIVITY SWIVEL CARRYING CASES

- NTN8035B** Leather Carry Case with 2.5" High Activity Swivel Belt Loop, "D" rings and T-Strap for use with high capacity battery
- NTN8037B** Leather Carry Case with 3.0" High Activity Swivel Belt Loop, "D" rings and T-Strap for use with high capacity battery
- NTN8036B** Leather Carry Case with 2.5" High Activity Swivel Belt Loop, "D" rings and T-Strap for use with ultra-high capacity battery
- NTN8038B** Leather Carry Case with 3.0" High Activity Swivel Belt Loop, "D" rings and T-Strap for use with ultra-high capacity battery
- NDN4017B** Leather DTMF Carry Case with 3.0" High Activity Swivel Belt Loop and Antenna Strap for use with high and ultra-high capacity battery

Motorola designed and engineered carrying cases are available in a variety of sizes to fit your radio and battery while permitting audio to be clearly heard. Constructed of top grain 8 oz. natural leather and all stainless steel hardware, Motorola carrying cases were developed to meet the demands of public safety, construction and other users who operate in the most rigorous environments.

Swivel carrying cases have a high activity swivel "D" button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high activity applications versus standard swivel cases while allowing the radio-to-swing freely with body movements.



NTN7247A



NTN8038B



NTN8036B



RLN4943A

UNIVERSAL HOLDER WITH GOOSENECK BRACKET

- RLN4943A** Universal Holder with Gooseneck Bracket; provides flexible mounting solutions for portable radios
- RLN4945A** Universal Holder with Gooseneck Bracket and wheelchair quick-release assembly
- RLN4944A** Wheelchair quick-release bracket

HT1000

Carrying Accessories

CARRYING CASE ACCESSORIES

T-STRAP

NTN7782A T-Strap for Leather Carrying Cases

NTN7376A T-Strap for Nylon Carrying Cases

BELT LOOPS

NTN8039B 2.5" High Activity Swivel Belt Loop

NTN8040B 3.0" High Activity Swivel Belt Loop

HIGH ACTIVITY BUTTONS

NTN1534A High Activity "D" Button w/2.5" Belt Loop (NTN8039B)

NTN1535A High Activity "D" Button w/3" Belt Loop (NTN8040B)

NTN8063A High Activity "D" Button

BELT CLIPS

4205638V09 2.5" Contoured Spring Action Belt Clip

4205638V07 3.0" Contoured Spring Action Belt Clip



4205638V07



TDN9684A



TDN9687A



4200865599

BELT

4200865599

1.75" Wide Adjustable Black Belt



NTN5243A

CARRYING STRAP

NTN5243A

Shoulder Carry Strap, allows easy carrying of radio in a case when not wearing a belt

SWIVELLER

TDN9684A

Swiveller, includes clip button, holster and belt

SWIVELLER REPLACEMENT

ACCESSORIES

TDN9690A Clip Button, mounts on battery

TDN9688A Holster, compatible with all buttons

TDN9687A 2" Nylon Belt



HT1000

Carrying Accessories

PORTABLE RADIO HANGER

TDN9327A Portable Radio Hanger for door panels up to 2.75"

TDN9373A Portable Radio Hanger for door panels up to 3.25"

The portable radio hanger slides over and hangs from the door panel in a vehicle. The radio's belt clip slides onto the portable hanger allowing convenient, easy mounting. Two sizes are available to fit door panels.



TDN9327A



HLN6602A

CHESTPACK

HLN6602A Universal Chest Pack with Radio Holder, Pen Holder, and Velcro Secured Pouch

1505596Z02 Replacement Strap for HLN6602A

Carry the radio mounted on chest with adjustable straps over shoulders and around waist.

BREAK-A-WAY CHEST PACK

RLN4570A Break-A-Way Chest Pack

All of the same features as the original chest pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure. Perfect for railroads, manufacturing locations, construction sites and anywhere safety is a concern.



RLN4570A

HT1000

Carrying Accessories & Batteries



RLN4815A

RadioPAK™
RLN4815A
4280384F89

RadioPAK Radio/Utility Case
Universal RadioPAk Belt Lengthener; fits waists larger than 40"

It's different from all other holders or cases: more comfortable, more useful and more stylish. Worn around the waist, it holds two-way, iDEN portables or cellular phones at hand. Includes a separate 6"x 8" zippered pouch for other on-the-job necessities. Adjustable nylon weave belt; fits both men and women.



HLN9985B

WATERPROOF BAG

HLN9985B Waterproof Bag, includes large carrying strap

BATTERIES

impres™ NICKEL CADMIUM (NiCd)

HNN9028AR (impres™) 1500 mAh, 7.5V
HNN9029AR (impres™) 1500 mAh, 7.5V, Intrinsically Safe

PREMIUM NICKEL CADMIUM (NiCd)

NTN7143CR 1200 mAh, 7.5V
NTN7150AR 1200 mAh, 7.5V, Intrinsically Safe (MSHA)
NTN7372AR 1200 mAh, 7.5V, Intrinsically Safe
NTN7147AR 1300 mAh, 7.5V, Intrinsically Safe
NTN7149BR 1300 mAh, 7.5V, Intrinsically Safe (CSA)
NTN7341AR 1400 mAh, 7.5V, Intrinsically Safe
NTN7144CR 1500 mAh, 7.5V

PREMIUM NICKEL METAL HYDRIDE (NiMH)

WPNN4013A 2000 mAh, 7.5V
WPNN4037A 1900 mAh, 7.5V, Intrinsically Safe

Motorola Original Batteries are ruggedly designed for lasting durability and system tested with Motorola two-way radios to ensure optimum performance. We offer various chemistry and capacity alternatives, allowing the user to select the ideal battery for his or her needs. NiCd is best suited for extreme-temperature operation, and provides the maximum number of charge/discharge cycles. NiMH batteries offer extended duty cycles—providing more talk time per shift.



NTN7143CR



NTN7144CR



NTN7372AR



WPNN4013A



HNN9029AR



CHARGERS

SINGLE UNIT COMPACT RAPID RATE CHARGERS

- RPX4747A Compact Rapid Rate Charger, 110V
- RPX4748A Compact Rapid Rate Charger, 230V Euro plug
- RPX4749A Compact Rapid Rate Charger, 230V UK plug

These chargers have the power supply built into the line cord giving the user a smaller base unit for easier storage. It also utilizes an enhanced charging algorithm that will help maximize the life of your batteries. It will rapid rate charge both NiCd and NiMH batteries.

MULTIPLE UNIT CHARGER (MUC)

- NTN1177D Six-Pocket, rapid rate, 110V
- NTN1178D Six-Pocket, rapid rate, 220V (supplied with 2-prong cord)
- NTN1179D Six-Pocket, rapid rate, 240V (supplied with 3 flat prong cord)

Multi-unit chargers offer six pockets that can be used to rapid charge 1 to 6 batteries simultaneously. The batteries can be charged with the radios or separately. They will rapid rate charge both NiCd and NiMH batteries.



NTN1177D

MUC ACCESSORIES

- NLN7967A Wall Mount Kit for Multi Unit Charger



WPLN4111AR



WPLN4130A

impres™ SMART ENERGY SYSTEM

- WPLN4111AR impres™ Smart Energy System Single Unit Charger
- WPLN4108BR impres™ Smart Energy System Multi Unit Charger (six bank)
- WPLN4130A impres™ Smart Energy System Multi Unit Charger with Displays

The impres smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging algorithm and automatic reconditioning features. The smart energy system reconditions impres batteries when the need it, automatically, keeping them in peak condition. It's advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can rob batteries of cycle life. In addition, batteries left on the charger are kept fully charged so they are always ready when you need them. Talk time and cycle life are optimized and the need for manual maintenance programs reduced or eliminated. This rapid-rate tri-chemistry charging system will also charge existing legacy batteries and supports multiple radio platforms including Saber, XTS, and HT1000 series portables. impres™ Multi Unit Chargers with display modules provide valuable information about impres™ batteries. Due to its patented communication protocol, an impres™ battery's current mAh and % capacity are displayed "real time" by simply inserting a battery into a pocket. In addition, battery serial number, kit number, chemistry, charging status, voltage, and other valuable information are displayed. And, by pressing a toggle button, the display can be inverted for wall mounting.

HT1000

Chargers

impres™ BUNDLE PACKS

<i>RLN5265A</i>	<i>impres™</i> single unit charger with 2 HNN9029AR Batteries
<i>RLN5266A</i>	<i>impres™</i> single unit charger with 2 HNN9028AR Batteries
<i>RLN5439B</i>	<i>impres™</i> multi unit charger with 6 HNN9029AR Batteries
<i>RLN5440B</i>	<i>impres™</i> single unit charger with 6 HNN9028AR Batteries

Provide significant savings on the *impres* products by bundling a charger and batteries together as a smart energy system package.

impres™ INDIVIDUAL CHARGER DISPLAY MODULE

RLN5382A Charger Display Module for *impres™* Multi-Unit Version 1.3 or Later

These modules are designed to be retrofittable with the standard *impres* Multi-Unit Charger WPLN4108BR. Up to six modules can be purchased per charger, one for each charging pocket. Includes detailed installation instructions. Note: The version number is referenced on the label located on the bottom of the *impres* Multi-Unit charger. If no version is shown, it is version 1.2 or earlier. For example, version 1.3 will appear as V1.30.

RLN5591A Charger Display Module for *impres* Multi-Unit Charger Version 1.2 or earlier

Compatible with Multi-Unit Charger version 1.2 or earlier. These modules require a software flash update from the Radio Support Center. Display modules added at the Radio Support Center. Details included with each shipment. Note: The version number is referenced on the label located on the bottom of the *impres™* Multi-Unit charger. If no version is shown, it is version 1.2 or earlier. For example, version 1.2 will appear as V1.20.

impres™ CD

9880384R88 *impres™* CD

This CD provides an interactive guide to the *impres™* Charging System, and provides benefit statements as well as application examples.





*WPPN4002BR
Shown With
Optional Cigarette
Lighter Adapter*

MOTOROLA CONDITIONING CHARGER (MCC)

- WPLN4090BR* MCC Kit, 110V AC; includes both base charger unit and 7V adapter plate
- WPLN4091BR* MCC Kit, 220V AC; includes both base charger unit and 7V adapter plate
- WPPN4002BR* 110V AC Base Charge Unit Only (order adapter plate separately)
- WPPN4006AR* 220V AC Base Charge Unit Only (order adapter plate separately)
- WPPN4065BR* Multi-Unit Conditioning Charger Four Station Base 110V (order adapter plate separately)

- WPPN4004BR* 7 Volt Adapter Plate Only
- 3080384G15* 15 Cigarette Lighter Adapter Cord; MCC multi-unit conditioning charger
- RLN481A* Vehicular Mounting Bracket and Hard Wire Cable for single unit Motorola Conditioning Charger
- 3080384M21* DC Hard Wire Cable, for vehicular installation (included in RLN481A)

The MCC utilize negative pulse charging technology that will help extend battery life and enhance battery operation. It will safely condition and charge your specified NiCd and NiMH batteries in approximately one to two hours. The MCC controls heat buildup due to its charging and termination algorithms and the maintenance mode allows batteries to be safely left on the charger for extended periods of time. And now there is an Instant Fault Detection (IFD) feature which detects faulty radio batteries in seconds, which notifies the user that the battery will not operate at peak performance. Optional accessories are available allowing these chargers to be used in both AC and DC environments providing optimal charging flexibility.

HT1000

Chargers

BATTERY MAINTENANCE SYSTEM ^{PLUS} (BMS ^{PLUS})

INCREASE THE USEFUL LIFE OF YOUR BATTERIES

- WPLN4097BR** Six-Station, 110V AC, 50/60 Hz
WPLN4080BR Six-Station, 230V AC, 50/60 Hz
WPPN4085AR BMS^{plus} field Upgrade Kit for WPLN4079AR, WPLN4081AR and WPLN4081AR; allows these units to support Li-ion battery chemistries.
- NDN4005B** Three-Station, 110V AC, 50/60 Hz
(does not support Li-ion or 3-cell batteries)
- NDN4006B** Three-Station, 230V AC, 50/60 Hz
(does not support Li-ion or 3-cell batteries)



WPLN4079BR

Using interchangeable battery adapters (sold separately), the BMS^{plus} is capable of charging and discharging, analyzing, conditioning, and cycle testing batteries. It supports NiCd, NiMH, and Li-ion battery chemistries (Li-ion on six station models only) and tracks battery voltage and capacity (mAh). The BMS^{plus} offers a 3-year warranty. Its easy-to-use design supports hundreds of 2-way, cellular, and camcorder batteries. Includes serial printer* port (RS-232)

*Compatible with the STAR Micronics SP200 Series printers (and other printers with STAR emulation); available from any STAR Micronics distributor.



TDN9435C

BOS ^{PLUS} ADAPTERS

- TDN9435C** Adapter Compatible with NiCd batteries
- CDN6364A** Adapter Compatible with both NiCd and NiMH batteries

HT1000

Chargers

BATTERY OPTIMIZING SYSTEM II (BOS II)

WPLN4124AR BOS II, Four Station, 100-240VAC (US line cord)

WPLN4125AR BOS II, Four Station, 100-240VAC (UK/Euro line cords)

No other battery analyzer matches the speed, accuracy, and versatility of the Battery Optimizing System II. Ideal for large fleet, public safety, and all other users who rely on their battery performance. Now with increase power, more sophisticated programming options, and easier to use navigation paths, optimizing your batteries was never easier. Key features include:

- Support for NiCd, NiMH, Li-ion, and SLA batteries
- 100-watt Power Supply programmable from 100 mA to 4 Amps per station
- Interchangeable Adapters accommodate all major brands
- Includes a variety of User Programs and allows for customizable programming
- Proprietary Recondition Cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a Three-minute Quicktest that measures the batteries' State of Health (SoH)
- Printer Output for reports and labels
- Three-year Warranty



WPLN4124AR

BOS ADAPTERS

RL-72403 Standard Adapter





TDN9816A

VEHICULAR CHARGER

TDN9816A Vehicular Charger

This 12V DC charger is ideal for mobile customers; it charges portable radio NiCd batteries in rapid charge mode (in less than 3 hours) until full charge is obtained and then switches to trickle charge mode. A microprocessor controls the charge rate. This durable unit comes with a metal mounting bracket and is PAC_RT compatible

VEHICULAR TRAVEL CHARGER

RLN4884B Vehicular Travel Charger

A great traveling companion that ensures constant communication while on the road; allows the battery to rapid charge while using the radio. Users can receive communication immediately once the charger is connected, and transmit from a previously "dead" battery in just 5 minutes. This light and compact unit includes a voltage regulated lighter adapter, custom charger base, mounting bracket, and coil cord; ideal for public safety, utility and construction markets.

TRAVEL CHARGER AC TRANSFORMER

2580600E05 Transformer 120V (US)

2580600E06 Transformer 230V (Euro)

2580600E07 Transformer 230V (U.K.)

2580600E08 Transformer 230V (Argentina)

Travel Charger AC transformer connects to the cigarette lighter adapter cord to allow it to be plugged into an AC wall outlet for indoor use.

TRAVEL CHARGER MOUNTING BRACKET

0780384K84 Universal Mounting Bracket for travel charger; includes screws and nylon cord



RLN4884B

HT1000

Antennas

ANTENNAS

Injection molded for rugged environments. Each antenna is tested and tuned to give maximum power and performance.

FLEXIBLE WHIP ANTENNAS

- 8505241U05 Flexible Whip, 403-520 MHz, 6"
- 8505241U03 Flexible Whip, 806-869 MHz, 7"
- 8505241U04 Flexible Whip, 896-941 MHz, 7"

Antenna has a one-piece finish and steel core for optimal strength and better radiation characteristics.

HELICAL ANTENNAS

- 8505644V01 Helical, 136-151 MHz, 6"
- 8505644V02 Helical, 151-162 MHz, 6"
- 8505644V03 Helical, 162-174 MHz, 6"
- 8505644V04 Helical, 403-435 MHz, 3"
- 8505644V05 Helical, 435-470 MHz, 3"
- 8505644V06 Helical, 470-520 MHz, 3"

Helical antennas are sturdy and dependable for years of failsafe communication. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements. Connector is made of plated brass material for long life.

DIPOLE ANTENNAS

- NAF4000B Dipole, 806-869 MHz, 8"
- 8505884R02 Dipole, 896-941 MHz, 8"

Dipole molded antennas are injection molded in lasting polyurethane. The wide skirt at the bottom of the connector protects against damaging environmental elements. The dipole antenna is ideal when strong and solid signal clarity is demanded.

WIDEBAND ANTENNA

- 8505518V01 Wideband, 136-174 MHz, 6"

Wideband antenna is ideal when radio is used in different frequencies since one antenna will cover all ranges.



HT1000

Antennas

STUBBY ANTENNA

8505241U06 Stubby, 806-941 MHz, 4"
RAD4194A Stubby, 150-162 MHz

This quarterwave stubby antenna is ideal when radio is worn on the belt because the short antenna is non-obtrusive. This is a broad band antenna that can be used for both 800MHz and 900MHz applications.



8505241U06

MISCELLANEOUS ACCESSORIES

PUBLIC SAFETY TILT SWITCH

NTN7660B* Public Safety Tilt Switch

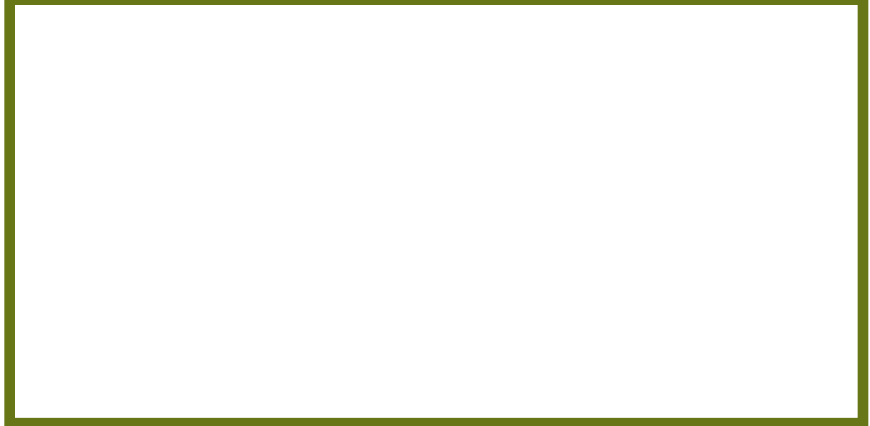
An external emergency switch that is activated when the unit is tilted at a greater than 60 degree angle. Delay times are factory programmed for 8 seconds and are not field programmable. The emergency feature must be programmed into the radio to enable the tilt switch option. Not compatible with the JT1000.

OPTION BOARDS

NTN8313A Analog Voice Scrambler Advantage Board, for use with HT1000 only—NOT APPROVED for installation in FM approved models

**Intrinsically safe*

For more information, please contact:



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